Instruction Sheet

Carousel sample holder

Safety Information

Please read this entire document before unpacking, setting up, or operating this equipment. Pay attention to all danger and caution statements. Failure to do so could result in serious injury to the operator or damage to the equipment.

To ensure that the protection provided by this equipment is not impaired, do not use or install this equipment in any manner other than that specified in this document.

Use of Hazard Information

DANGER
Indicates a potentially or imminently hazardous situation which, if not avoided, will result in death or serious injury.

WARNING
Indicates a potentially or imminently hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION
Indicates a potentially hazardous situation that may result in minor or moderate injury.

Important Note: *Indicates a situation which, if not avoided, may cause damage to the instrument. Information that requires special emphasis.*

Note: *Information that supplements points in the main text.*

Precautionary Labels
Read all labels and tags attached to the instrument. Personal injury or damage to the instrument could occur if not observed. A symbol, if noted on the instrument, will be included with a danger or caution statement in the manual.

Electrical equipment marked with this symbol may not be disposed of in European public disposal systems after 12 August of 2005. In conformity with European local and national regulations (EU Directive 2002/96/EC), European electrical equipment users must now return old or end-of life equipment to the Producer for disposal at no charge to the user.

Note: *For return for recycling, please contact the equipment producer or supplier for instructions on how to return end-of-life equipment, producer-supplied electrical accessories, and all auxiliary items for proper disposal.*

The Carousel Holder allows the user to load up to seven 10 mm cells of solution into the instrument for analysis at one time.

The cells can be various combinations of blanks and samples. The number of cell positions and the orientation of blanks and samples is user-defined in Instrument Setup.

Carousel Holder Installation

1. Open the cell compartment. Remove the Multi-Cell Adapter, if installed.
2. Place the carousel holder on the rotating attachment on the floor of the cell compartment (Figure 1). The gold dot on the carousel module should be positioned above the gold dot on the attachment. The numbers 1–7 on the cell holder are visible from above.
3. Turn the module slightly to the right and left until the locking pin in the middle clicks into place.

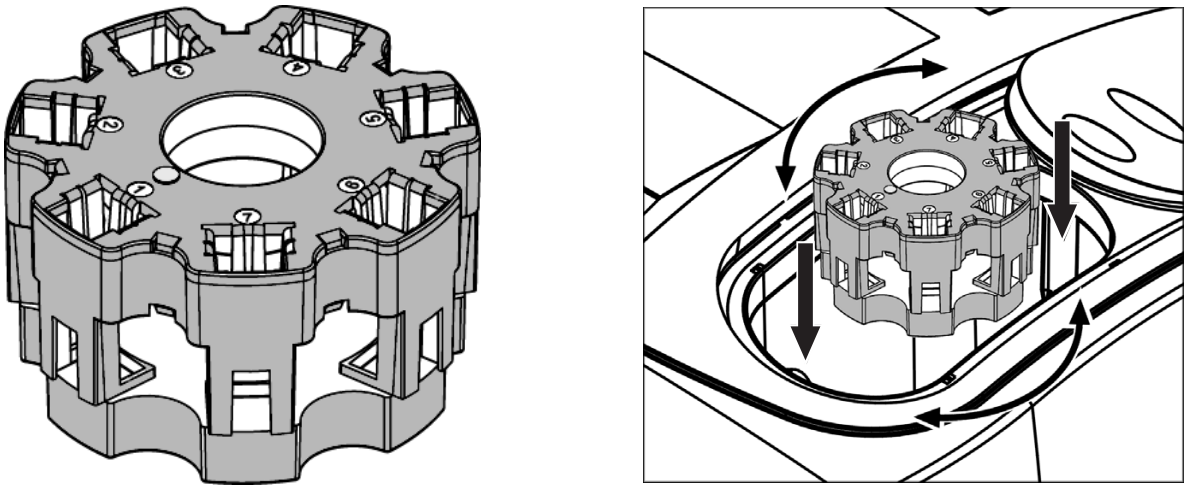
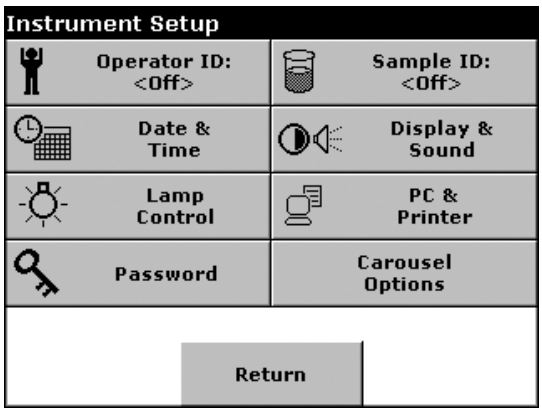


Figure 1 Carousel Holder Installation

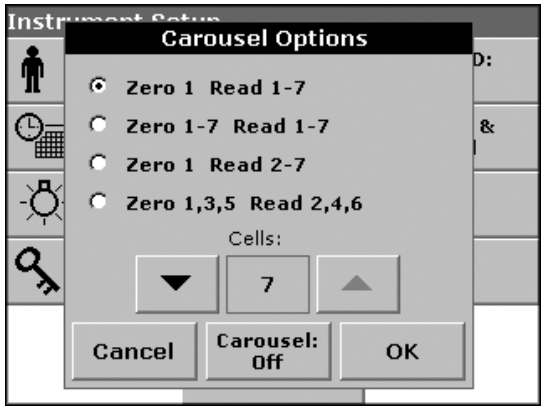
Running a Measurement with a Carousel Holder

1. From Instrument Setup, press **CAROUSEL OPTIONS.**



2. Select **CAROUSEL: OFF** to change the display to **CAROUSEL: ON** and press **OK** to confirm the input.

3. Use the Carousel Options menu to change the carousel holder configuration.

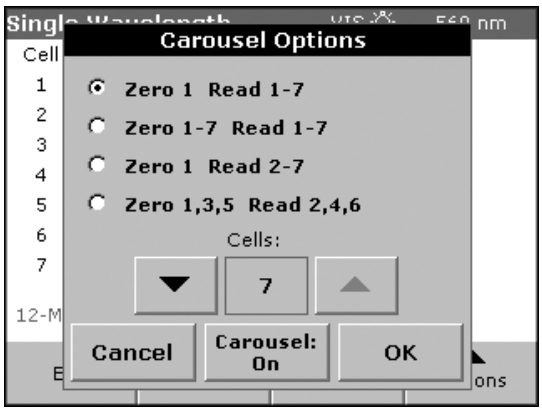


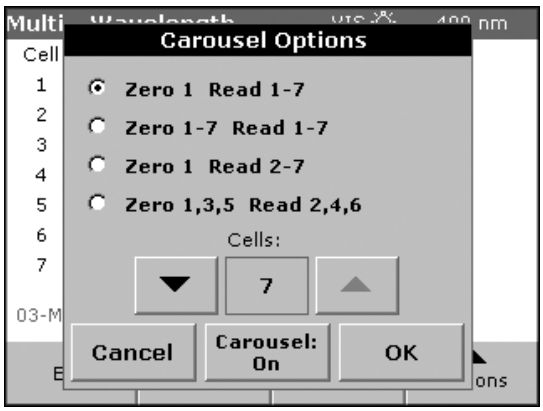
Performing a Single or Multi-Wavelength Measurement with the Carousel Holder

1. Load and insert the Carousel Holder and close the cell compartment.

2. From Instrument Setup, activate the carousel holder by selecting **CAROUSEL OPTIONS** and **CAROUSEL: OFF** (the display changes to **CAROUSEL: ON**). Press **OK** to confirm the input.

Note: *Use the arrow keys to select the number of active cells.*





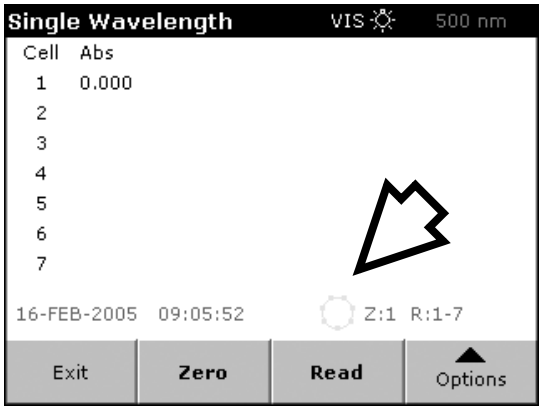
Shifting Activated/Disabled Conditions of Keys Under Carousel Settings

Table 1 lists the activated/disabled conditions of **ZERO**, **READ**, and **ZERO & READ** under various Carousel settings:

Table 1 Activated/Disabled Conditions

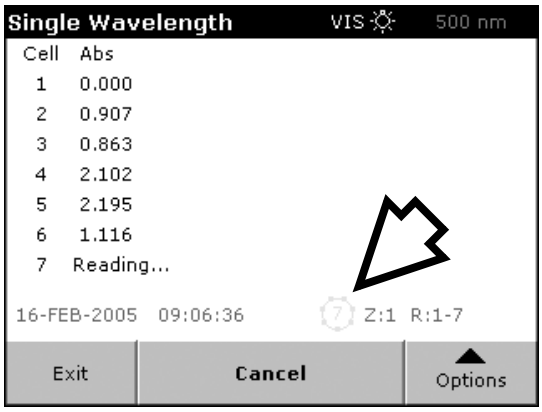
Carousel Mode	Initial State (Display)	After Zero (Display)
B: 1 R: 1 – n	[Zero] [Read]	[Zero] [Read]
B: 1 – n R: 1 – n	[Zero] [Read]	[Zero] [Read]
B: 1 R: 2 – n	[Zero & Read]	[Zero & Read]
B: 1, (3), (5) R: 2, (4), (6)	[Zero & Read]	[Zero & Read]
n = number of samples in the Carousel		

1. Press the **CAROUSEL** icon to change the carousel settings.



2. Press **OPTIONS** in the Single or Multi-Wavelength menu to configure settings.

3. Press **ZERO** (or **ZERO & READ**) to start the first set of measurements. The status bar displays the instrument operation: "Reading..." ("Zeroing"), while the Carousel turns and the instrument takes readings as programmed through the Instrument Setup menu. The instrument lists each reading on the display as it is taken. When Zeroing or Reading, the position number appears in the Carousel icon (see below).



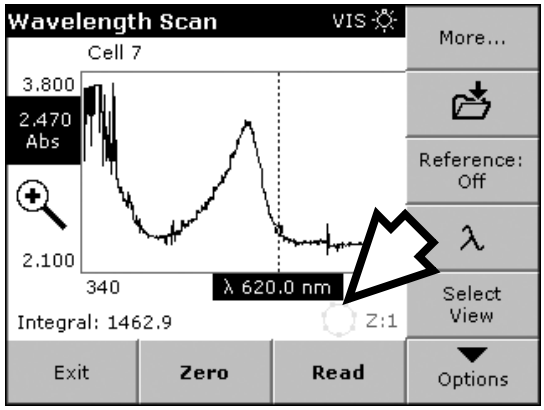
Note: *After starting the Reading sequence, the* ***ZERO/READ*** *keys turn into a* ***CANCEL*** *key. Press* ***CANCEL*** *at any time to start over and to erase all readings from the current set of measurements.*

4. After finishing the reading sequence the Carousel turns back to the initial position. The **ZERO/READ** keys are reactivated.

Performing a Wavelength Scan with the Carousel Holder

1. Load and insert the Carousel Holder.

2. From Instrument Setup select **CAROUSEL OPTIONS** and press **CAROUSEL: OFF** (the display changes to **CAROUSEL: ON**). Press **OK** to confirm the input.



3. Press **OPTIONS** in the Wavelength Scan menu to configure scanning parameters. Press the **CAROUSEL** icon to change the Carousel Settings without returning to Instrument Setup.

4. After the scanning parameters have been selected, the baseline must be scanned. Changing any of the scanning parameters requires a new baseline scan. When the baseline has been scanned, the instrument is ready to scan the samples.

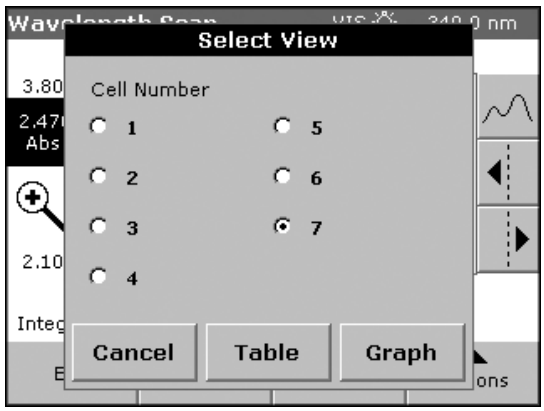
Note: *After starting the Reading sequence the* ***ZERO/READ*** *keys turn into a* ***CANCEL*** *key. Press* ***CANCEL*** *at any time to start over and to erase all readings from the current set of measurements.*

5. After finishing the reading sequence the Carousel turns back to the initial position. The **ZERO/READ** keys are reactivated.

Displaying a Graph or Table

1. Press **SELECT VIEW** to select the scan data for one Carousel position.

2. Activate a cell number 1–7 and press **TABLE** or **GRAPH** to display the scan data for one Carousel postition.



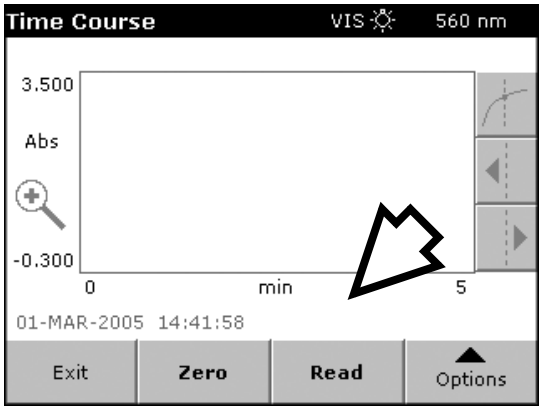
Performing a Time Scan with the Carousel Holder

1. Load and insert the Carousel Holder.

2. From Instrument Setup select **CAROUSEL OPTIONS** and **CAROUSEL:OFF** (the display changes to **CAROUSEL:ON**). Press **OK** to confirm the input.

Note: *Use the arrow keys to select the number of active cells.*

3. Press **OPTIONS** in the Time Course menu to configure parameters and press **OK** to confirm. Refer to the user manual for information about Time Course options. Press the **CAROUSEL** icon to change the Carousel Settings without returning to Instrument Setup.



4. After the parameters have been selected, the instrument must be blanked.

Note: *After starting the Reading sequence the* ***ZERO/READ*** *keys turn into a* ***MARK/STOP*** *key. Press* ***STOP*** *any time to start over.*

5. After finishing the reading sequence the Carousel turns back to the initial position. The **ZERO/READ** keys are reactivated.

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